



1644  
PATENT APPLICATION  
Attorney Docket No. 28110/35761A #2

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE** **RECEIVED**

Applicant(s): Ford et al.

Serial No.: 10/091,085

Title: "Method and Materials Relating to  
Novel CD39-Like Polypeptides"

Filed: March 5, 2002

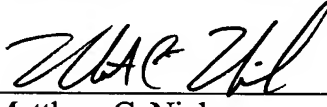
Group Art Unit: 1644

Examiner: To be determined.

JUN 27 2002  
**CERTIFICATE OF MAILING**

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) I hereby certify that this paper and the  
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) Washington, D.C. 20231.

)   
) \_\_\_\_\_  
) Matthew C. Nielsen  
) Attorney for Applicants  
) Registration No.: 51,106

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In compliance with 37 C.F.R. § 1.97 and the continuing duty of disclosure under 37 C.F.R. § 1.56, the attached Form PTO-1449 is hereby submitted by Applicants for consideration in connection with the above-identified patent application. Pursuant to 37 C.F.R. § 1.98(d), copies of all documents cited herein are not enclosed because they were previously submitted to the Patent Office in a prior application (U.S. Application Serial No. 09/350,836, filed July 9, 1999, issued as U.S. Patent No. 6,387,645 (copy enclosed)), which is identified in the attached Form PTO-1449 and is relied on for an earlier effective filing date under 35 U.S.C. § 120. The information disclosure statement submitted in this earlier application complies with 37 C.F.R. § 1.98(a)-(c). Copies of any listed documents will be resubmitted at the Examiner's request.

Also enclosed are copies of the International Search Reports in two counterpart applications, International Application Number PCT/US99/16180, filed July 16, 1999 (Document C131), and International Application Number PCT/US00/21790, filed August 9, 2000 (Document C132).

Documents C16 (Chadwick), C17 (Chadwick), C61 (Maliszewski *et al.*) and C80 (Rowe *et al.*) relate to similar DNAs.


This Information Disclosure Statement is not intended to be an admission that other relevant art does not exist, or that any of the information disclosed herein constitutes prior art under 35 U.S.C. § 102 or § 103.

Because this Information Disclosure Statement is being submitted before the mailing of a first Office Action on the merits under 37 C.F.R. § 1.97(b)(3), no fees are thought to be due. However, should any fees be deemed due, please charge any such fees to Marshall, Gerstein & Borun's Deposit Account No. 13-2855.

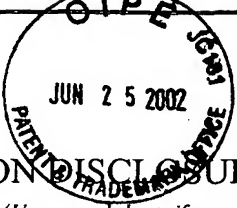
Respectfully submitted,

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June 18, 2002

Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28110/35761A	Serial No. 10/091,085
		Applicant Ford et al.	
		Filing Date March 5, 2002	Group Art Unit 1644

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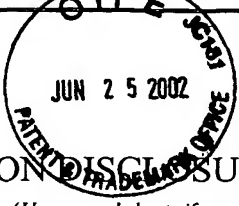
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIALS		DOCUMENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	4,683,195	07/28/87	Mullis <i>et al.</i>	435	6	
	A2	4,946,778	08/07/90	Ladner <i>et al.</i>	435	69.6	
	A3	4,965,188	10/23/90	Mullis <i>et al.</i>	435	6	
	A4	5,202,231	04/13/93	Drmanac <i>et al.</i>	435	6	
	A5	5,525,464	06/11/96	Drmanac <i>et al.</i>	435	6	
	A6	4,235,871	11/25/80	Papahadjopoulos <i>et al.</i>	424	19	
	A7	4,501,728	2/26/85	Geho <i>et al.</i>	424	38	
	A8	4,737/323	4/12/88	Martin <i>et al.</i>	264	4.3	
	A9	4,837,028	6/06/89	Allen	424	450	
	A10	4,959,314	09/25/90	Mark <i>et al.</i>	435	69.1	
	A11	09/240,639		Chadwick <i>et al.</i>			01/29/99
	A12	09/350,836, and 6,387,645	05/14/02	Ford <i>et al.</i>			07/09/99

FOREIGN PATENT DOCUMENTS							
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation Yes No
	B1	WO 90/03382	04/05/90	WO			
	B2	WO 90/14148	11/29/90	WO			
	B3	WO 91/09955	07/11/91	WO			
	B4	WO 92/20808	11/26/92	WO			
	B5	WO 94/12650	06/09/94	WO			
	B6	WO 95/09248	04/06/95	WO			

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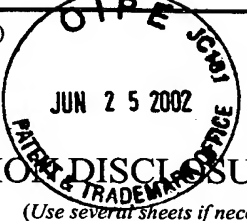
Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 28110/35761A	Serial No. 10/091,085
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B7	WO 96/30532	10/03/96	WO				JUN 27 2002
B8	WO 96/32471	10/17/96	WO				
B9	2148851	10/11/96	CA				TECH CENTER 1600/2900

<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, etc.)	
C1	Adelman, J. P. <i>et al.</i> , "In Vitro Deletional Mutagenesis for Bacterial Production of the 20,000-Dalton Form of Human Pituitary Growth Hormone," <i>DNA</i> , 2(3):183-193 (1983).
C2	Altschul, S.F. <i>et al.</i> , "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> , 215:403-410 (1990).
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C10	Breslauer, K.J. <i>et al.</i> , "Predicting DNA Duplex Stability from the Base Sequence," <i>Proc. Natl. Acad. Sci., USA</i> , 83: 3746-3750 (1986).
C11	Broude, N.E. <i>et al.</i> , "Enhanced DNA Sequencing by Hybridization," <i>Proc. Natl. Acad. Sci., USA</i> , 91:3072-3076 (1994).
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C13	Burnstock, G., "The Past, Present and Future of Purine Nucleotides as Signalling Molecules," <i>Neuropharmacology</i> , 36:1127-1139 (1997).
C14	Cate, R.L. <i>et al.</i> "Genomic Southern Analysis with Alkaline-Phosphatase-Conjugated Oligonucleotide Probes and the Chemiluminescent Substrate AMPPD," <i>Genet. Anal. Tech. Appl.</i> , 8(3):102-106 (1991).

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C15	Chadwick, B. P. <i>et al.</i> , "Cloning and Mapping of a Human and Mouse Gene with Homology to Ecto-ATPase Genes," <i>Mammalian Genome</i> , 8:668-672 (1997).
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C17	Chadwick B.P. <i>et al.</i> , "The CD39-like Gene Family: Identification of Three New Human Members (CD36L2, CD39L3, and CD39L4), Their Murine Homologues, and a Member of the Gene Family from <i>Drosophila melanogaster</i> ," <i>Genomics</i> , 50:357-367 (1998).
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C21	Craig, M.E. <i>et al.</i> , "Relaxation Kinetics of Dimer Formation by Self Complementary Oligonucleotides," <i>J. Mol. Biol.</i> , 62:383-401 (1971).
C22	Dahlén <i>et al.</i> , "Sensitive Detection of Genes by Sandwich Hybridization and Time-Resolved Fluorometry," <i>Mol. Cell. Probes (England)</i> , 1:159-168 (1987).
C23	Daly, J. <i>et al.</i> , "Direct Method for Determining Inorganic Phosphate in Serum with the Centrifichem," <i>Clin. Chem.</i> , 18:263-265 (1972).
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C27	Drmanac, R. <i>et al.</i> , "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," <i>Genomics</i> , 4:114-128 (1989).
C28	Drmanac, R. <i>et al.</i> , "Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides," <i>DNA Cell Biol.</i> , 9:527-534 (1990).
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C31	Drmanac, R. <i>et al.</i> , "W (A or T) Sequences as Probes and Primers Suitable for Genomic Mapping and Fingerprinting," <i>Nucleic Acids Research</i> , 19(21):5839-5842 (1991).
C32	Drmanac, R. <i>et al.</i> , "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 260(5114):1649-1652 (1993).
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C40	Gluzman, Y., "SV40-Transformed Simian Cells Support the Replication of Early SV40 Mutants," <i>Cell</i> , 23:175-182 (1981).
C41	Goding, J.W., "Conjugation of Antibodies with Fluorochromes: Modifications to the Standard Methods," <i>J. Immunol. Meth.</i> , 13:215-226 (1976).
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C44	Hoheisel <i>et al.</i> , "Quantitative Measurements on the Duplex Stability of Diaminopurine and 5-Chloro-Uracil Nucleotides using Enzymatically Synthesized Oligomers," <i>FEBS Lett.</i> , 274:103-106 (1990).
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C47	Ikuta, S. <i>et al.</i> , "Dissociation Kinetics of 19 Base Paired Oligonucleotide-DNA Duplexes Containing Different Single Mismatched Base Pairs," <i>Nucleic Acids Research</i> , 15:797-811 (1987).
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C49	Kaczmarek, E. <i>et al.</i> , "Identification and Characterization of CD39/Vascular ATP Diphosphohydrolase," <i>J. Biol. Chem.</i> , 271:33116-33122 (1996).
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C54	Kozbor, D. <i>et al.</i> , "The Production of Monoclonal Antibodies from Human Lymphocytes," <i>Immunology Today</i> , 4:72-79 (1983).
C55	Lamture, J., "Direct Detection of Nucleic Acid Hybridization on the Surface of a Charge Coupled Device," <i>Nucleic Acids Research</i> , 22:2121-2125 (1994).
C56	Landegren, U. <i>et al.</i> , "A Ligase-Mediated Gene Detection Technique," <i>Science</i> , 241:1077-1080 (1988).
C57	Lee, J.S. <i>et al.</i> , "Complexes formed by (pyrimidine) <sub>n</sub> (purine) <sub>n</sub> DNAs on lowering the pH are three-stranded," <i>Nucl. Acids Res.</i> , 6:3073-3091 (1979).
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C61	Maliszewski, C. R. <i>et al.</i> , "The CD39 Lymphoid Cell Activation Antigen," <i>J. Immunology</i> , 153:3574-3583 (1994).
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C63	Miller, A.D., "Human Gene Therapy Comes of Age," <i>Nature</i> , 357:455-460 (1992).
C64	Morrissey, D. <i>et al.</i> , "Nucleic Acid Hybridization Assays Employing dA-Tailed Capture Probes. I. Single Capture Methods," <i>Mol. Cell. Probes</i> , 2:189-207 (1989).
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C71	Okano, H. <i>et al.</i> , "Myelin Basic Protein Gene and the Function of Antisense RNA in Its Repression in Myelin-Deficient Mutant Mouse," <i>J. Neurochem.</i> , 56:560-567 (1991).
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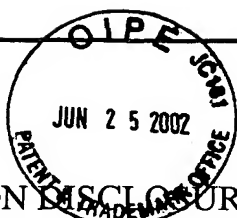
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